

## **PART 1927 [RESERVED]**

## **PART 1928—OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR AGRICULTURE**

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AUTHORITY: Secs. 4, 6, 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order Nos. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable; 29 CFR part 1911.

Section 1928.21 also issued under Sec. 29, Hazardous Materials Transportation Uniform Safety Act of 1990 (Public Law 101–615, 104 Stat. 3244 (49 U.S.C. 1801–1819 and 5 U.S.C. 553)).

SOURCE: 40 FR 18257, Apr. 25, 1975, unless otherwise noted.

### **Subpart A—General**

#### **§ 1928.1 Purpose and scope.**

This part contains occupational safety and health standards applicable to agricultural operations.

### **Subpart B—Applicability of Standards**

#### **§ 1928.21 Applicable standards in 29 CFR part 1910.**

(a) The following standards in part 1910 of this chapter shall apply to agricultural operations:

- (1) Temporary labor camps—§ 1910.142;
- (2) Storage and handling of anhydrous ammonia—§ 1910.111 (a) and (b);
- (3) Logging operations—§ 1910.266;
- (4) Slow-moving vehicles—§ 1910.145;
- (5) Hazard communication—§ 1910.1200;
- (6) Cadmium—§ 1910.1027.
- (7) Retention of DOT markings, placards and labels—§ 1910.1201.

(b) Except to the extent specified in paragraph (a) of this section, the standards contained in subparts B through T and subpart Z of part 1910 of this title do not apply to agricultural operations.

(Section 1928.21 contains a collection of information which has been approved by the Office of Management and Budget under OMB control number 1218–0072)

[40 FR 18257, Apr. 25, 1975, as amended at 42 FR 38569, July 29, 1977; 52 FR 31886, Aug. 24, 1987; 59 FR 36700, July 19, 1994; 59 FR 51748, Oct. 12, 1994; 61 FR 5510, Feb. 13, 1996; 61 FR 9255, Mar. 7, 1996]

### **Subpart C—Roll-Over Protective Structures**

#### **§ 1928.51 Roll-over protective structures (ROPS) for tractors used in agricultural operations.**

(a) *Definitions.* As used in this subpart—

*Agricultural tractor* means a two- or four-wheel drive type vehicle, or track vehicle, of more than 20 engine horsepower, designed to furnish the power to pull, carry, propel, or drive implements that are designed for agriculture. All self-propelled implements are excluded.

*Low profile tractor* means a wheeled tractor possessing the following characteristics:

- (1) The front wheel spacing is equal to the rear wheel spacing, as measured from the centerline of each right wheel to the centerline of the corresponding left wheel.

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(2) The clearance from the bottom of the tractor chassis to the ground does not exceed 18 inches.

(3) The highest point of the hood does not exceed 60 inches, and

(4) The tractor is designed so that the operator straddles the transmission when seated.

*Tractor weight* includes the protective frame or enclosure, all fuels, and other components required for normal use of the tractor. Ballast shall be added as necessary to achieve a minimum total weight of 110 lb. (50.0 kg.) per maximum power take-off horsepower at the rated engine speed or the maximum gross vehicle weight specified by the manufacturer, whichever is the greatest. Front end weight shall be at least 25 percent of the tractor test weight. In case power take-off horsepower is not available, 95 percent of net engine flywheel horsepower shall be used.

(b) *General requirements.* Agricultural tractors manufactured after October 25, 1976, shall meet the following requirements:

(1) *Roll-over protective structures (ROPS).* A roll-over protective structures (ROPS) shall be provided by the employer for each tractor operated by an employee. Except as provided in paragraph (b)(5) of this section, ROPS used on wheel-type tractors shall meet the test and performance requirements of the American Society of Agricultural Engineers Standard (ASAE) Standard S306.3-1974 entitled "Protective Frame for Agricultural Tractors—Test Procedures and Performance Requirements" and Society of Automotive Engineers (SAE) Standard J334-1970, entitled "Protective Frame Test Procedures and Performance Requirements" (formerly codified in 29 CFR 1928.52); or ASAE Standard S336.1-1974, entitled "Protective Enclosures for Agricultural Tractors—Test Procedures and Performance Requirements" and SAE J168-1970, entitled "Protective Enclosures—Test Procedures and Performance Requirements" (formerly codified in 29 CFR 1928.53)<sup>1</sup>; or

<sup>1</sup>In March 1977, the American Society of Agricultural Engineers merged S306 and S336, along with Standard 305, entitled "Operator Protection for Wheel Type Agricultural Tractors," into ASAE S383, which ad-

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§ 1926.1002 of OSHA's construction standards. These ASAE and SAE standards are incorporated by reference and have been approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from either the American Society of Agricultural Engineers Standard, 2950 Niles Road, Post Office Box 229, St. Joseph, MI 49085, or the Society of Automotive Engineers, 485 Lexington Avenue, New York, NY 10017. Copies may be inspected at the OSHA Docket Office, U.S. Department of Labor, 200 Constitution Ave., NW., Room N2634, or at the Office of the Federal Register, 800 North Capitol St., NW., Suite 700, Washington, D.C. ROPS used on track-type tractors shall meet the test and performance requirements of § 1926.1001 of this title.

(2) *Seatbelts.* (i) Where ROPS are required by this section, the employer shall:

(A) Provide each tractor with a seatbelt which meets the requirements of this paragraph;

(B) Ensure that each employee uses such seatbelt while the tractor is moving; and

(C) Ensure that each employee tightens the seatbelt sufficiently to confine the employee to the protected area provided by the ROPS.

(ii) Each seatbelt shall meet the requirements set forth in Society of Automotive Engineers Standard SAE J4C, 1965 Motor Vehicle Seat Belt Assemblies,<sup>2</sup> except as noted hereafter:

(A) Where a suspended seat is used, the seatbelt shall be fastened to the movable portion of the seat to accommodate a ride motion of the operator.

(B) The seatbelt anchorage shall be capable of withstanding a static tensile load of 1,000 pounds (453.6 kg) at 45 degrees to the horizontal equally divided between the anchorages. The seat mounting shall be capable of withstanding this load plus a load equal to four times the weight of all applicable seat components applied at 45 degrees to the horizontal in a forward and upward direction. In addition, the seat

dresses ROPS for wheeled agricultural tractors.

<sup>2</sup>Copies may be obtained from the Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096.

mounting shall be capable of withstanding a 500 pound (226.8 kg) belt load plus two times the weight of all applicable seat components both applied at 45 degrees to the horizontal in and upward and rearward direction. Floor and seat deformation is acceptable provided there is not structural failure or release of the seat adjusted mechanism or other locking device.

(C) The seatbelt webbing material shall have a resistance to acids, alkalis, mildew, aging, moisture, and sunlight equal to or better than that of untreated polyester fiber.

(3) *Protection from spillage.* Batteries, fuel tanks, oil reservoirs, and coolant systems shall be constructed and located or sealed to assure that spillage will not occur which may come in contact with the operator in the event of an upset.

(4) *Protection from sharp surfaces.* All sharp edges and corners at the operator's station shall be designed to minimize operator injury in the event of an upset.

(5) *Exempted uses.* Paragraphs (b)(1) and (b)(2) of this section do not apply to the following uses:

(i) *Low profile tractors* while they are used in orchards, vineyards or hop yards where the vertical clearance requirements would substantially interfere with normal operations, and while their use is incidental to the work performed therein.

(ii) *Low profile tractors* while used inside a farm building or greenhouse in which the vertical clearance is insufficient to allow a ROPS equipped tractor to operate, and while their use is incidental to the work performed therein.

(iii) Tractors while used with mounted equipment which is incompatible with ROPS (e.g. cornpickers, cotton strippers, vegetable pickers and fruit harvesters).

(6) *Remounting.* Where ROPS are removed for any reason, they shall be remounted so as to meet the requirements of this paragraph.

(c) *Labeling.* Each ROPS shall have a label, permanently affixed to the structure, which states:

(1) Manufacturer's or fabricator's name and address;

(2) ROPS model number, if any;

(3) Tractor makes, models, or series numbers that the structure is designed to fit; and

(4) That the ROPS model was tested in accordance with the requirements of this subpart.

(d) *Operating instructions.* Every employee who operates an agricultural tractor shall be informed of the operating practices contained in appendix A of this part and of any other practices dictated by the work environment. Such information shall be provided at the time of initial assignment and at least annually thereafter.

[40 FR 18257, Apr. 25, 1975, as amended at 61 FR 9255, Mar. 7, 1996]

#### APPENDIX A TO SUBPART C—EMPLOYEE OPERATING INSTRUCTIONS

1. Securely fasten your seat belt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going, especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly—no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by tractor manufacturers.
9. When tractor is stopped, set brakes securely and use park lock if available.

#### Subpart D—Safety for Agricultural Equipment

##### § 1928.57 Guarding of farm field equipment, farmstead equipment, and cotton gins.

(a) *General*—(1) *Purpose.* The purpose of this section is to provide for the protection of employees from the hazards associated with moving machinery parts of farm field equipment, farmstead equipment, and cotton gins used in any agricultural operation.

(2) *Scope.* Paragraph (a) of this section contains general requirements which apply to all covered equipment. In addition, paragraph (b) of this section applies to farm field equipment, paragraph (c) of this section applies to farmstead equipment, and paragraph